

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Thomas 1-33C4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Thomas Elwin Dee Trustee						14. SURFACE OWNER PHONE (if box 12 = 'fee') 3072678650				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 301 Azalea St, Casper, WY 82604						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		660 FNL 1554 FWL		NENW	33	3.0 S	4.0 W	U		
Top of Uppermost Producing Zone		660 FNL 1554 FWL		NENW	33	3.0 S	4.0 W	U		
At Total Depth		660 FNL 1554 FWL		NENW	33	3.0 S	4.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000			26. PROPOSED DEPTH MD: 10500 TVD: 10500				
27. ELEVATION - GROUND LEVEL 5446			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City/East Duchesne Water District				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	20	13.375	0 - 800	54.5	J-55 LT&C	8.8	Class G	1000	1.15	15.8
SURF	12.25	9.625	0 - 2900	40.0	N-80 LT&C	9.5	35/65 Poz	369	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 7600	29.0	P-110 LT&C	10.5	Premium Lite High Strength	299	2.31	12.0
							Premium Lite High Strength	91	1.91	12.5
L1	6.125	4.5	7400 - 10500	13.5	P-110 LT&C	12.0	50/50 Poz	229	1.61	12.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst			PHONE 713 997-5038			
SIGNATURE				DATE 09/21/2012			EMAIL maria.gomez@epenergy.com			
API NUMBER ASSIGNED 43013517370000				APPROVAL Permit Manager						

**Thomas 1-33C4
Sec. 33, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	2,963'
Green River (GRTN1)	3,763'
Mahogany Bench	4,563'
L. Green River	5,813'
Wasatch	7,733'
T.D. (Permit)	10,500'

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Green River (GRRV)	2,963'
	Green River (GRTN1)	3,763'
	Mahogany Bench	4,563'
	L. Green River	5,813'
	Wasatch	7,733'

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 800'. A 4.5" by 13 3/8" Smith Rotating Head and 5M Annular from 800' to 2,900' on Conductor. A 5M BOP stack, 5M Annular, and 5M kill lines and choke manifold used from 2,900' to 7,600'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 7,600' to TD. The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test and 4,000 psi high test. The 10M BOP will be installed

with 3 ½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason monitoring systems with gas monitor 800' – TD.
- B) Mud logger with gas monitor – 2,900' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and de-silter, and centrifuge.

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations will be based on: 25% excess over gauge hole in the liner section, 10% excess over gauge hole in the intermediate section, and 75% excess on the lead and 50% excess on the tail over gauge hole volume for the surface hole. Actual volumes pumped will be a minimum of the volumes stated above, however, actual hole size will be based on caliper logs in the liner and intermediate sections. Gauge hole will be used for the surface section.

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.5
Intermediate	WBM	9.5 – 10.5
Production	WBM	10.5 – 12.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,900' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,500' TD equals approximately 6,552 psi. This is calculated based on a 0.624 psi/foot gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,242 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 7,600' = 6,080 psi

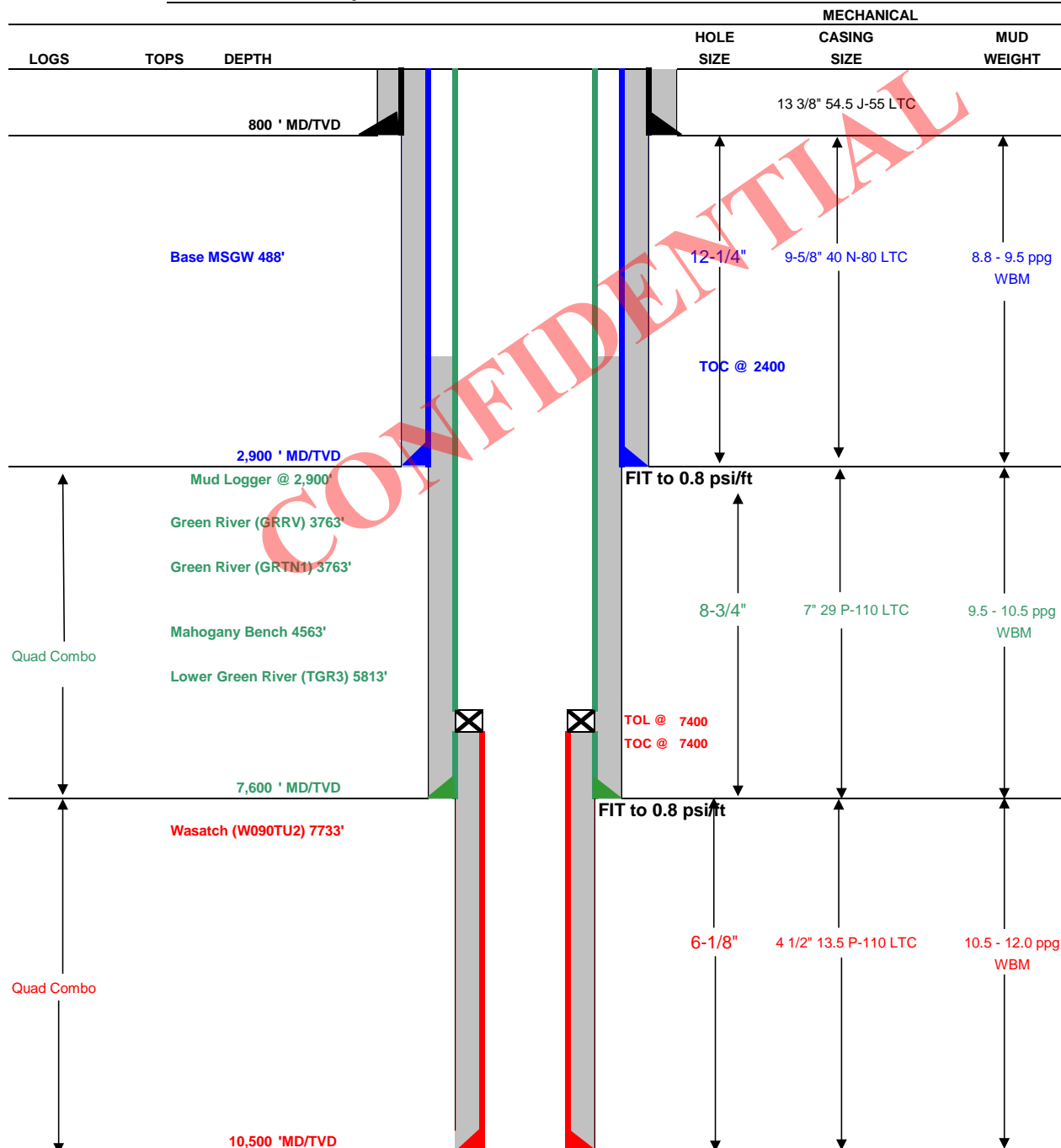
BOPE and casing design will be based on the lesser of the two MASPs which is 4,242 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: September 19, 2012
Well Name: Thomas 1-33C4	TD: 10,500
Field, County, State: Altamont - Bluebell, Duchesne, Utah	AFE #:
Surface Location: Sec 33 T3S R4W 660' FNL 1554' FWL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5445'
Rig: Precision 404	Spud (est.):
BOPE Info: 5.0 x 13 3/8 rotating head from 800' to 2,900' 11 5M BOP stack and 5M kill lines and choke manifold used from 2,900' to 7,600' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 7,600' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	800	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	2900	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	7600	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	7400	10500	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800	Class G + 3% CACL2	1000	100%	15.8 ppg	1.15
SURFACE	Lead	2,400	Boral Craig POZ 35%, Mountain G 65%, Bentonite Wyoming 8%, Silicate 5 lbm/sk, Pol-E Flake 0.125 lbm/sk, Kwik Seal 0.25 lb/sk	369	75%	11.0 ppg	3.16
	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol-Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	1.33
INTERMEDIATE	Lead	4,200	Halco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad322+3 lb/sk Silicalite Compacted+0.8% HR-5+ 0.125 lb/sk Poly-E-Flake	299	10%	12.0 ppg	2.31
	Tail	1,000	Halco-Light-Premium+0.2% Econolite+0.3% Versaset+0.2% Halad322+0.8% HR-5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		3,100	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad-344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	229	25%	12.30	1.61

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Joe Cawthorn 713-997-5929MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.
THOMAS 1-33C4
SECTION 33, T3S, R4W, U.S.B.&M.

PROCEED EAST ON PAVED STATE HIGHWAY 40 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 0.38 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL EASTERLY AND THEN NORTHEASTERLY 2.76 MILES ON EXISTING COUNTY ROAD TO THE BEGINNING OF THE ACCESS ROAD;

TURN LEFT ONTO THE ACCESS ROAD AND TRAVEL NORTH 0.10 MILES TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.24 MILES.

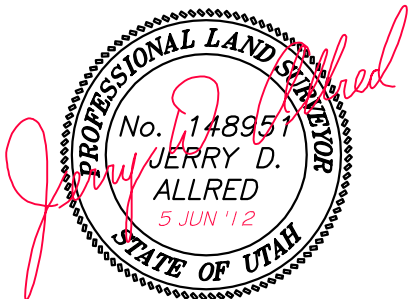
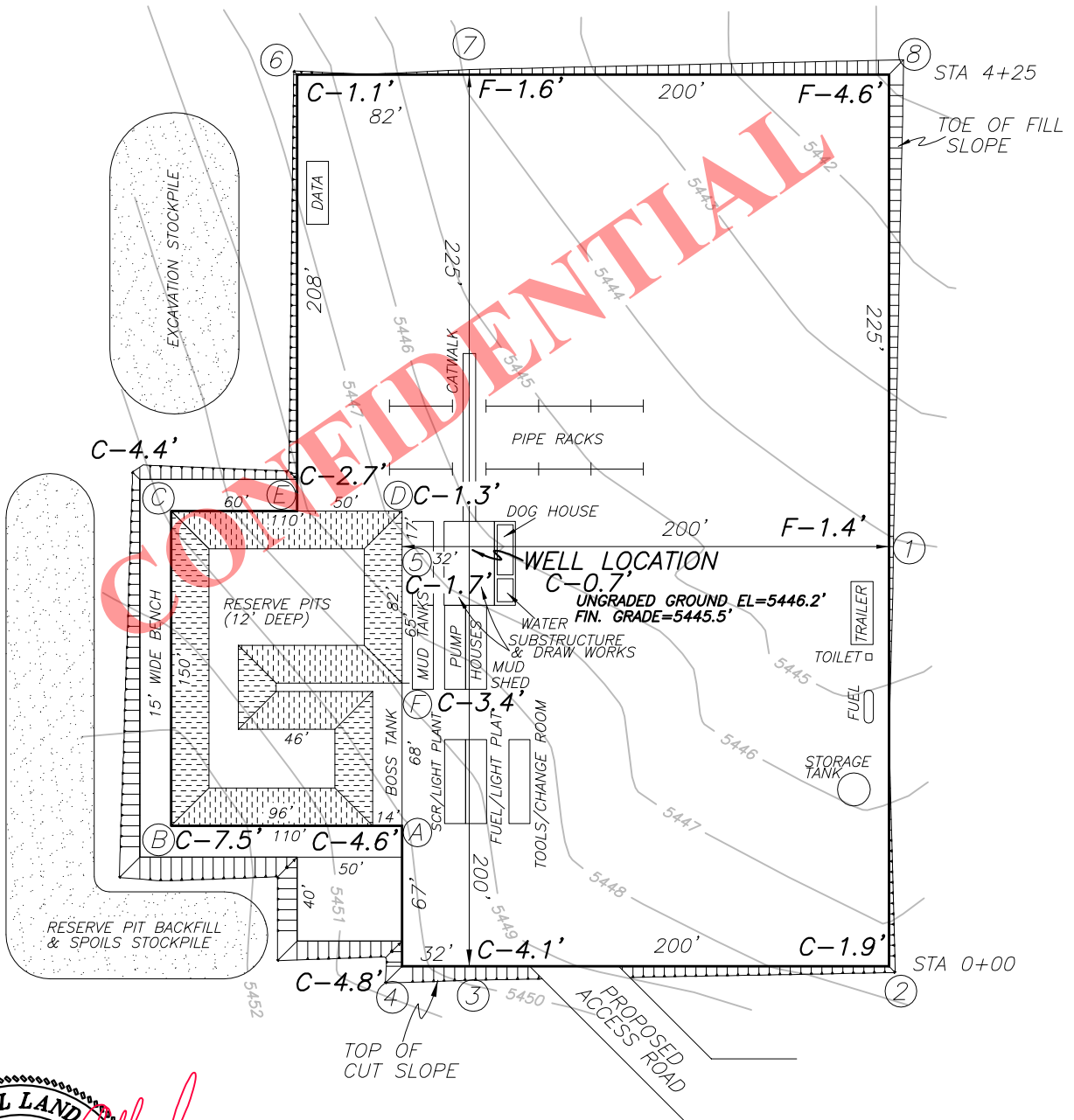
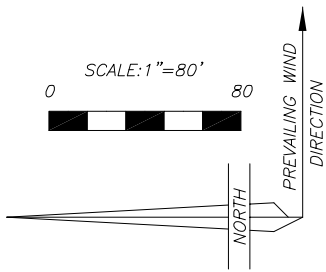
EP ENERGY E&P COMPANY, L.P.**FIGURE #1**

LOCATION LAYOUT FOR

THOMAS 1-33C4

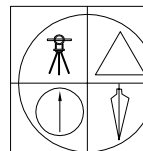
SECTION 33, T3S, R4W, U.S.B.&M.

660' FNL, 1554' FWL



5 JUN 2012

01-128-300

**JERRY D. ALLRED & ASSOCIATES**
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975
DUCHESTER, UTAH 84021
(435) 738-5352**RECEIVED:** September 21, 2012

EP ENERGY E&P COMPANY, L.P.**FIGURE #2**

LOCATION LAYOUT FOR

THOMAS 1-33C4

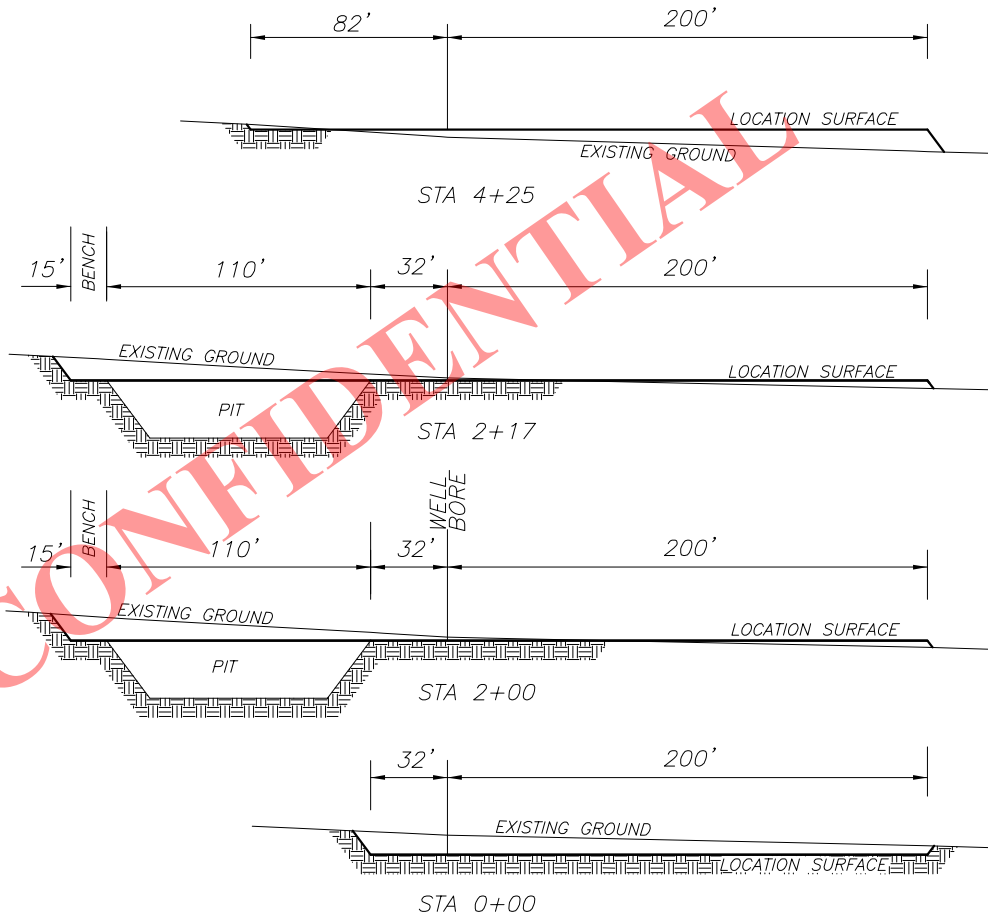
SECTION 33, T3S, R4W, U.S.B.&M.

660' FNL, 1554' FWL

1"=40'
X-SECTION
SCALE

1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED

APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 13,772 CU. YDS.

PIT CUT = 4572 CU. YDS.

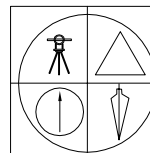
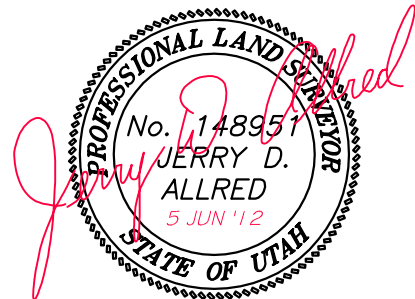
TOPSOIL STRIPPING: (6") = 2596 CU. YDS.

REMAINING LOCATION CUT = 6604 CU. YDS

TOTAL FILL = 4298 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=156 CU. YDS.



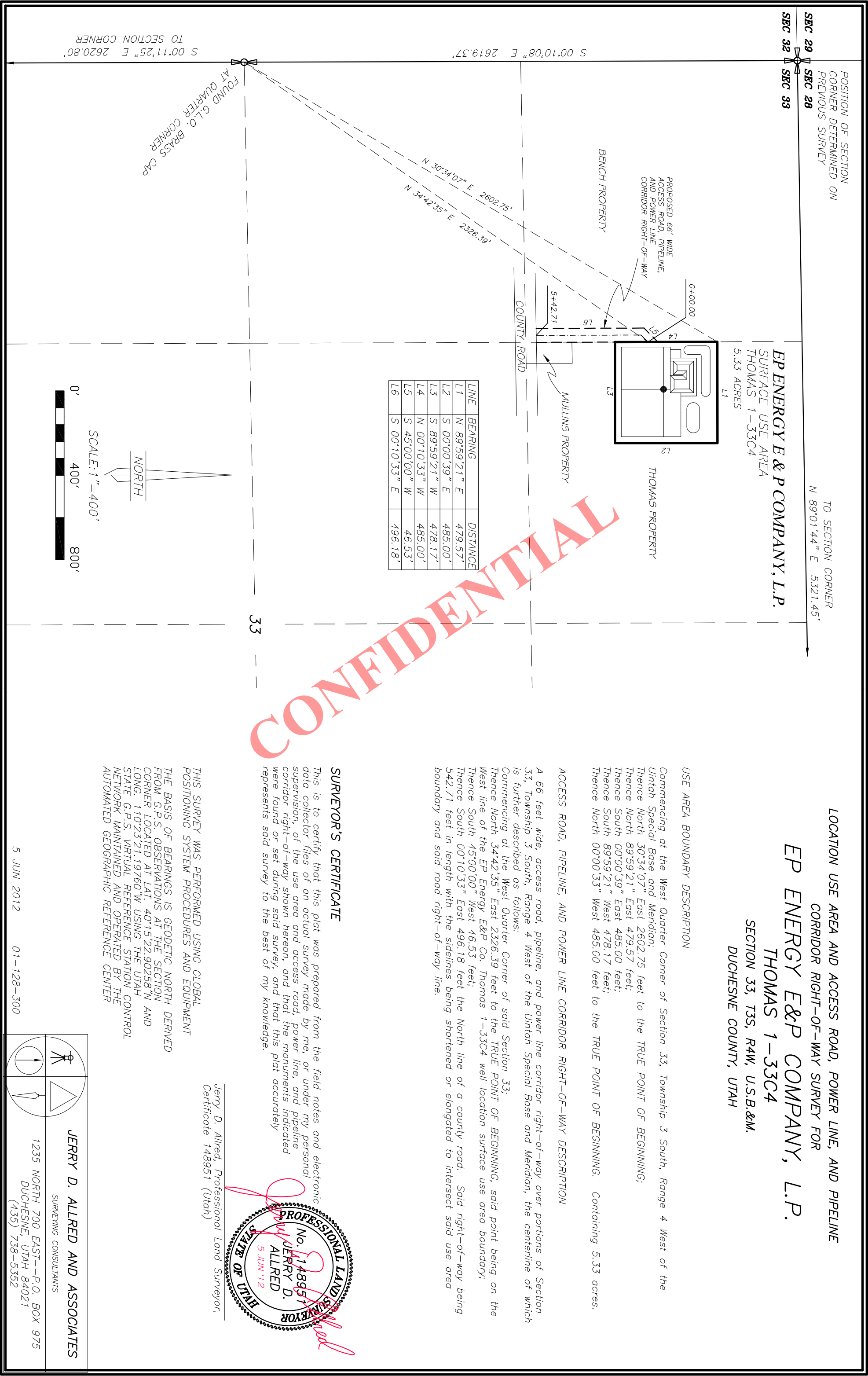
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

EP ENERGY E&P COMPANY, L.P.

THOMAS 1-33C4

SECTION 33, T3S, R4W, U.S.B.&M.

DUCHESSNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the West Quarter Corner of Section 33, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence North 30°34'07" East 2602.75 feet to the TRUE POINT OF BEGINNING;
Thence North 89°59'21" East 479.57 feet;
Thence South 00°00'39" East 485.00 feet;
Thence South 89°59'21" West 478.17 feet;
Thence North 00°00'33" West 485.00 feet to the TRUE POINT OF BEGINNING. Containing 5.33 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide, access road, pipeline, and power line corridor right-of-way over portions of Section 33, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:
Commencing at the West Quarter Corner of said Section 33;
Thence North 34°42'35" East 2326.39 feet to the TRUE POINT OF BEGINNING, said point being on the West line of the EP Energy E&P Co. Thomas 1-33C4 well location surface use area boundary;
Thence South 45°00'00" West 46.53 feet;
Thence South 00°10'33" East 496.18 feet the North line of a county road. Said right-of-way being 542.71 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said road right-of-way line.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

PROFESSIONAL LAND SURVEYOR

No. 1148951

JERRY D. ALLRED

5 JUN '12

Jerry D. Allred, Professional Land Surveyor,

Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

JERRY D. ALLRED AND ASSOCIATES

SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975

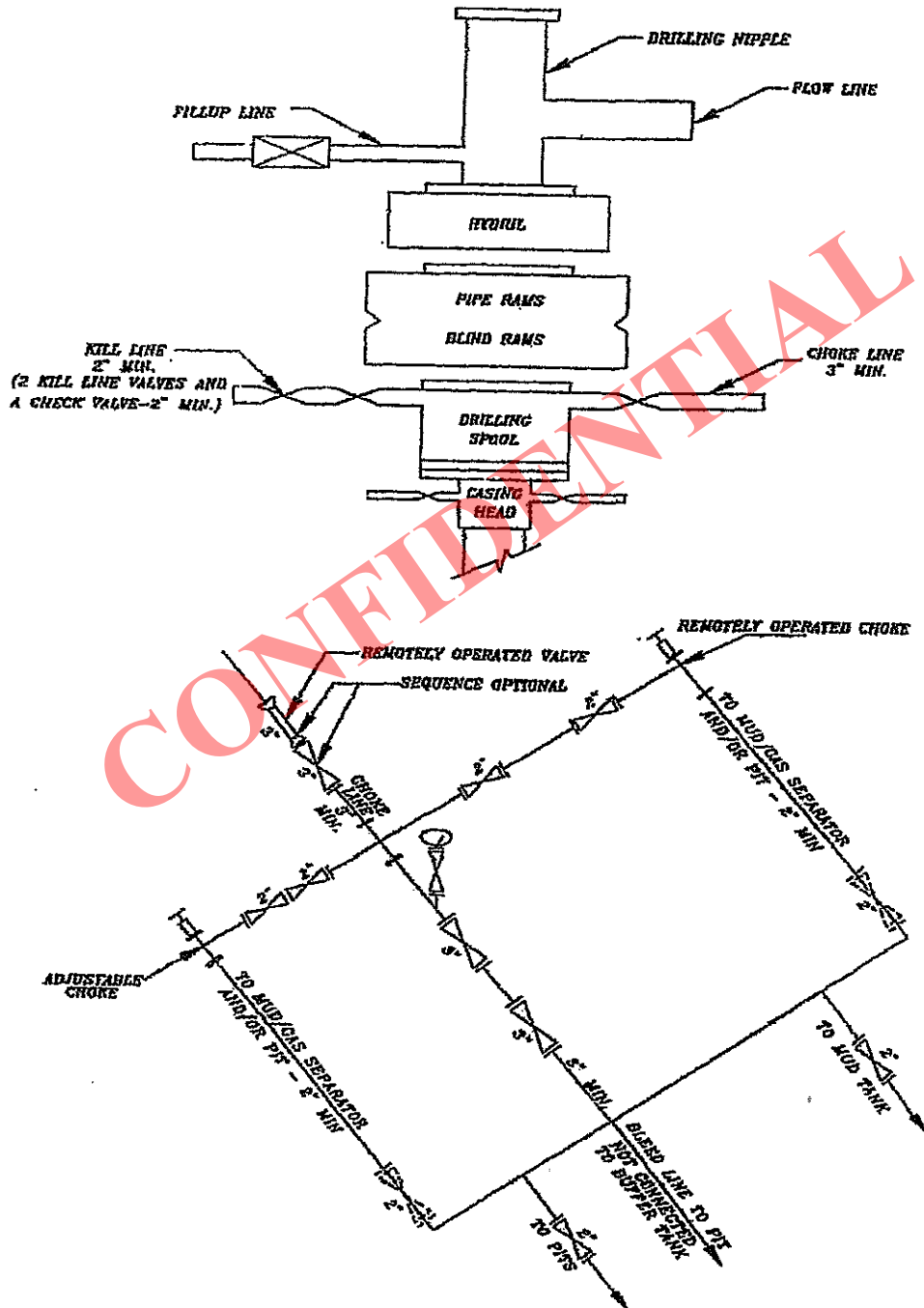
DUCHESSNE, UTAH 84021

(435) 738-5352

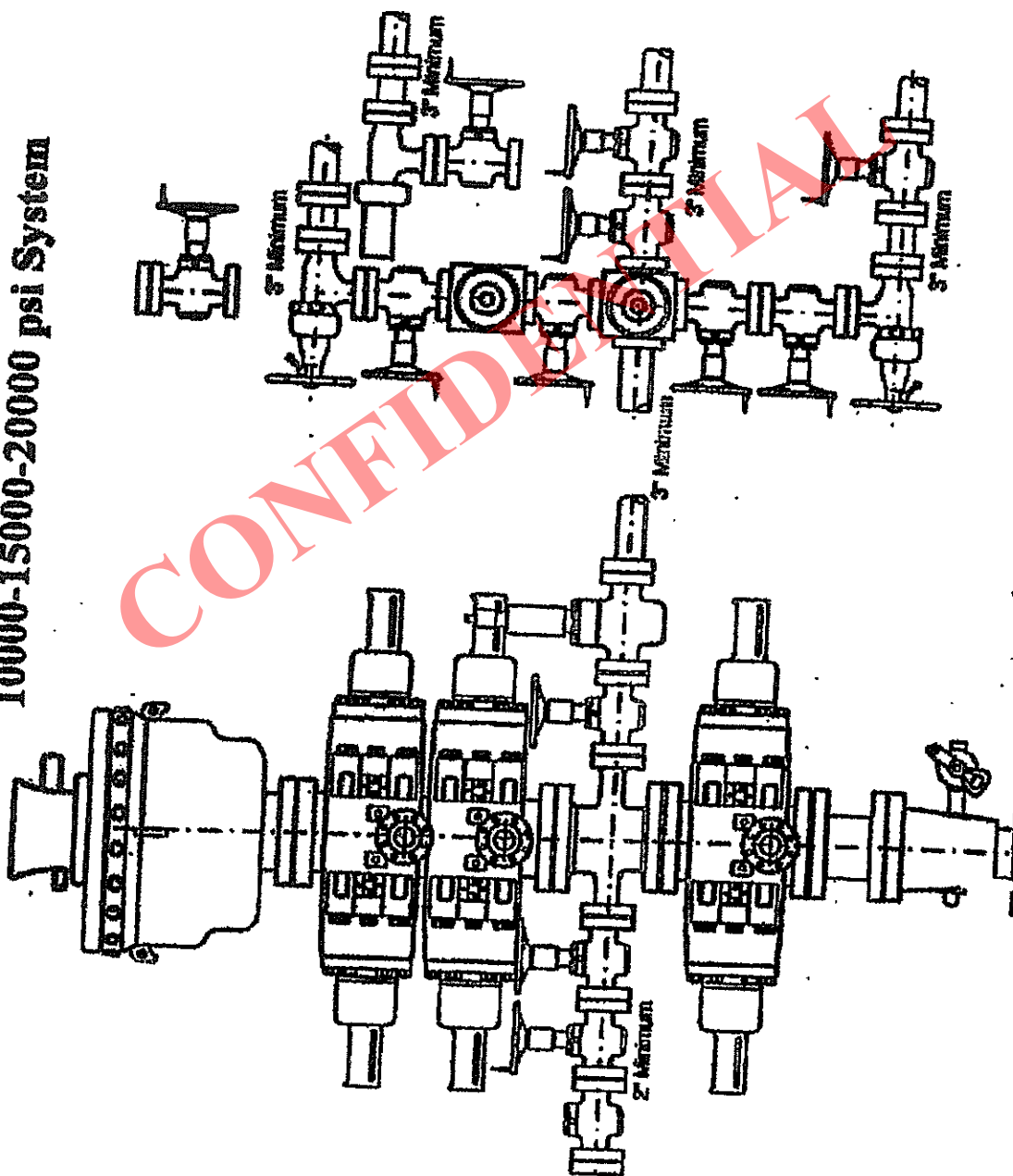
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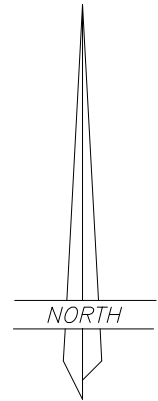
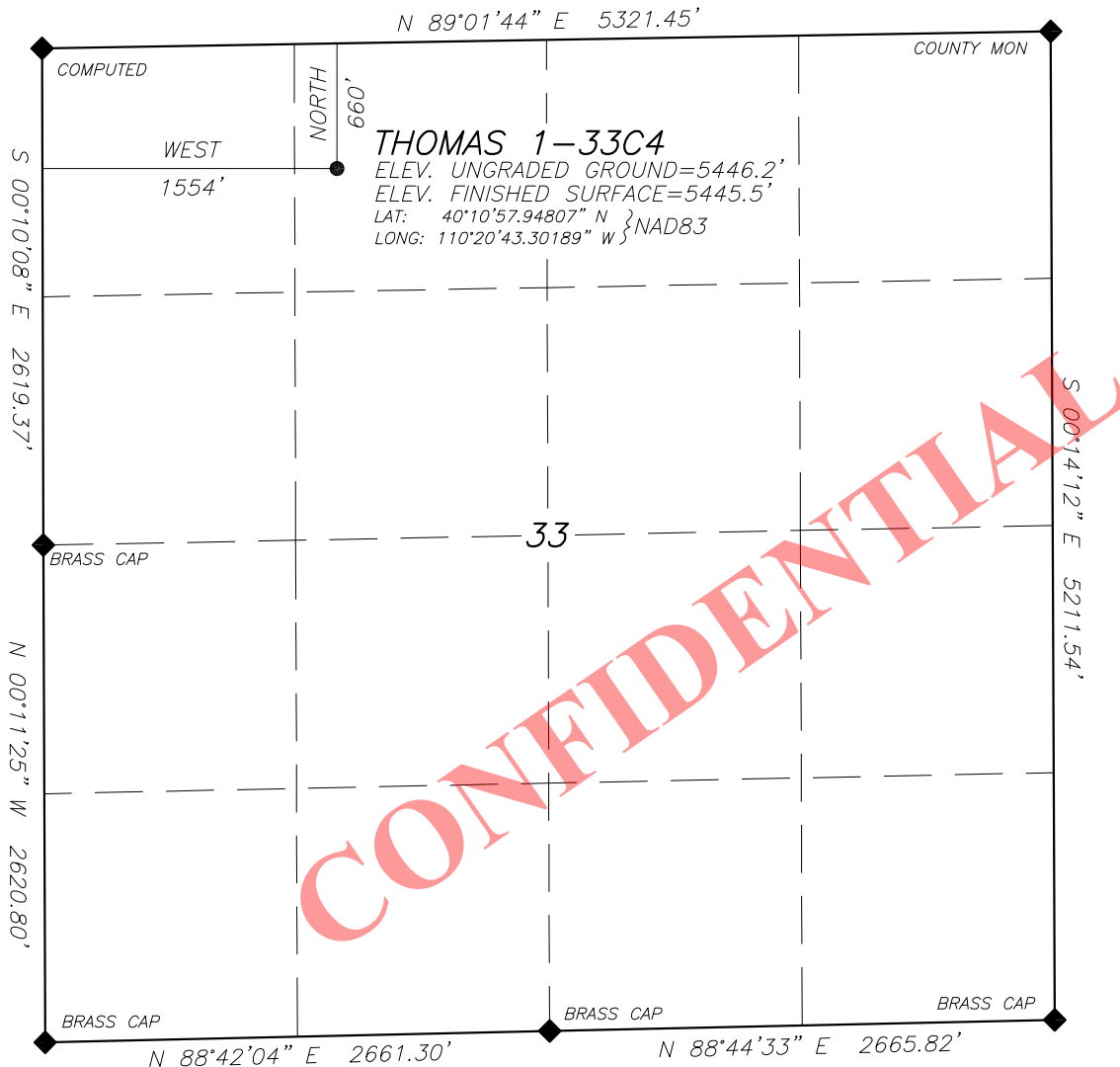
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5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System



EP ENERGY E&P COMPANY, L.P.**WELL LOCATION****THOMAS 1-33C4**LOCATED IN THE NE¼ OF THE NW¼ OF
SECTION 33, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

SCALE: 1"=1000'



NOTE:
NAD27 VALUES FOR
WELL POSITION:
LAT: 40.18280537° N
LONG: 110.34465120° W

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED
BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS
USED FOR REFERENCE AND CALCULATIONS AS
WAS THE U.S.G.S. MAP

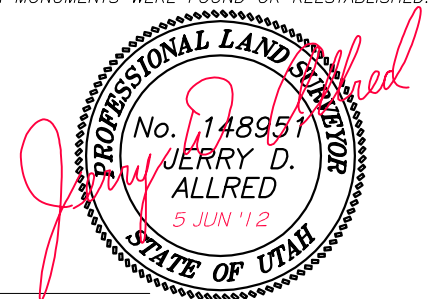
THIS SURVEY WAS PERFORMED USING GLOBAL
POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED
FROM G.P.S. OBSERVATIONS AT THE SECTION
CORNER LOCATED AT LAT. 40°15'22.90258" N AND
LONG. 110°23'21.19760" W USING THE UTAH
STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL
NETWORK MAINTAINED AND OPERATED BY THE
AUTOMATED GEOGRAPHIC REFERENCE CENTER

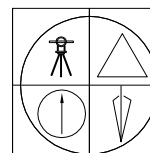
BASIS OF ELEVATIONS: NAVD 88 DATUM USING
THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD
NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL
SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION,
DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
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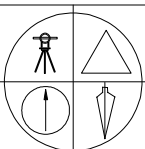
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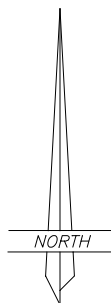
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DUCESNE, UTAH 84021
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TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
5 JUN 2012

RECEIVED: September 21, 2012

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE AGREEMENT

AND RIGHT OF WAY AGREEMENT

Michael J. Walcher personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Michael J. Walcher. I am a Sr. Staff Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Thomas 1-33C4 well (the "Well") to be located in the NE/4 NW/4 of Section 33, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Elwin Dee Thomas, as Trustee of the Elwin Dee Thomas Family Living Trust signed April 5, 1996, whose address is 301 Azalea St., Casper, WY 82604-3200 (the "Surface Owner"). The Surface Owner's telephone number is (307) 235-0826.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated April 15, 2013 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.
4. EP Energy and the Surface Owner have also entered into a Right-of-Way Agreement dated April 15, 2013 for an access road, pipeline and power line corridor across the NE/4 NW/4 of Section 33, Township 3 South, Range 4 West, USM, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.



Michael J. Walcher

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
CITY AND COUNTY OF HARRIS §

Before me, a Notary Public, in and for this state, on this 7th day of June, 2013, personally appeared Michael J. Walcher, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.


NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .10 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water/East Duchesne Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .10 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Thomas Elwin Dee Trustee
301 Azalea St.
Casper, Wyoming 82604-3974
307.267.8650

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

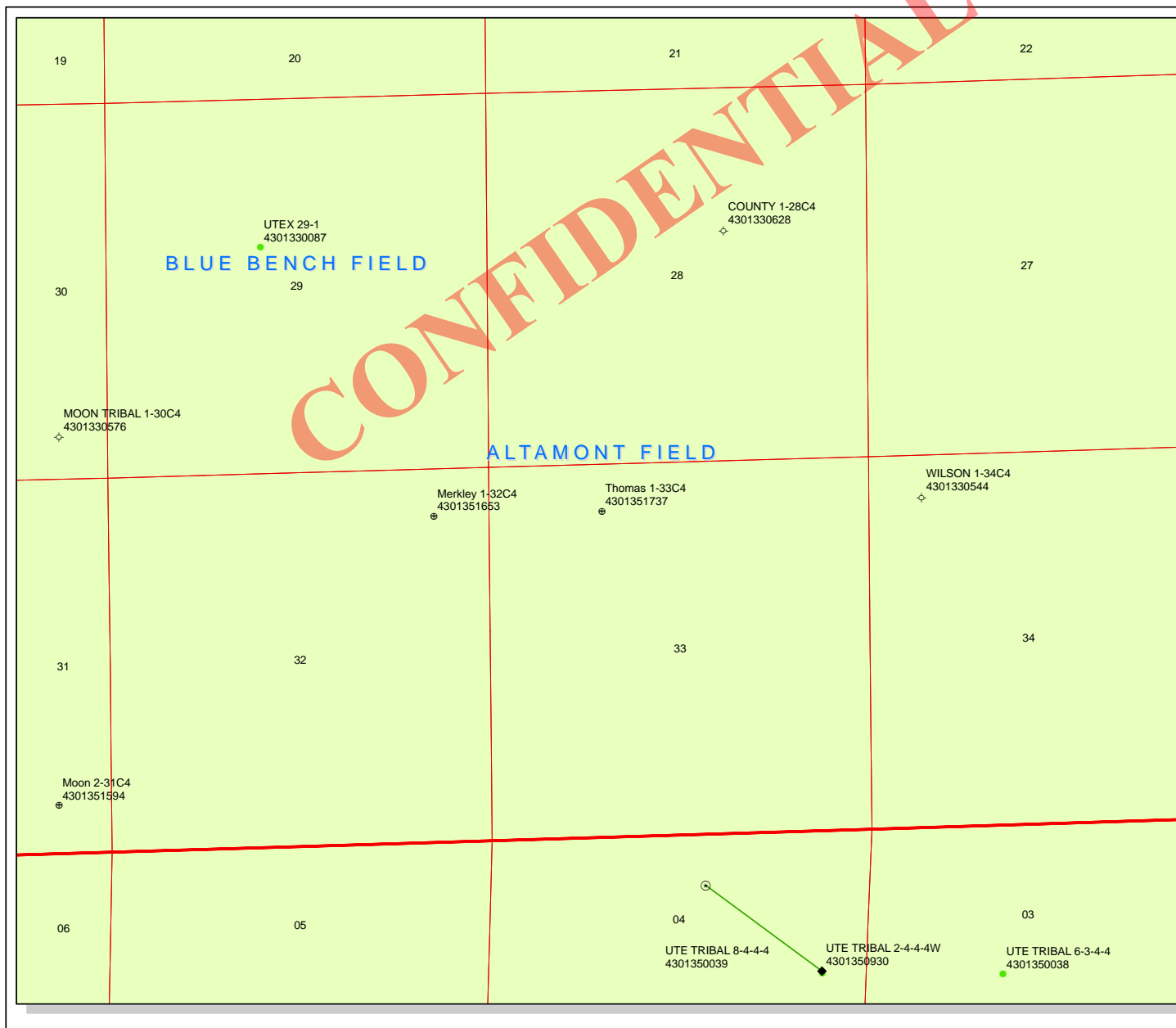
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

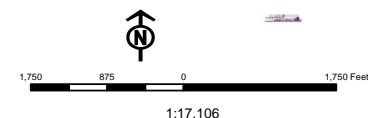
EP Energy E&P Company, L.P.
Joe Cawthorn – Drilling Engineer
1001 Louisiana, Rm 2523B
Houston, Texas 77002
713-997-5929 – office
832-465-2882 – Cell



API Number: 4301351737
Well Name: Thomas 1-33C4
Township T03.0S Range R04.0W Section 33
Meridian: UBM
 Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
	TA - Temp. Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well
	Bottom Hole Location - Oil/Gas/Dib
Fields	
Unknown	
ABANDONED	
ACTIVE	
COMBINED	
INACTIVE	
STORAGE	
TERMINATED	



Well Name	EP ENERGY E&P COMPANY, L.P. Thomas 1-33C4 43013517370000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	800	2900	7600	10500
Previous Shoe Setting Depth (TVD)	0	800	2900	7600
Max Mud Weight (ppg)	8.8	9.5	10.5	12.0
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	6552			12.0

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	366	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	270	YES rotating head, air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	190	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	190	NO OK
Required Casing/BOPE Test Pressure=		800	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

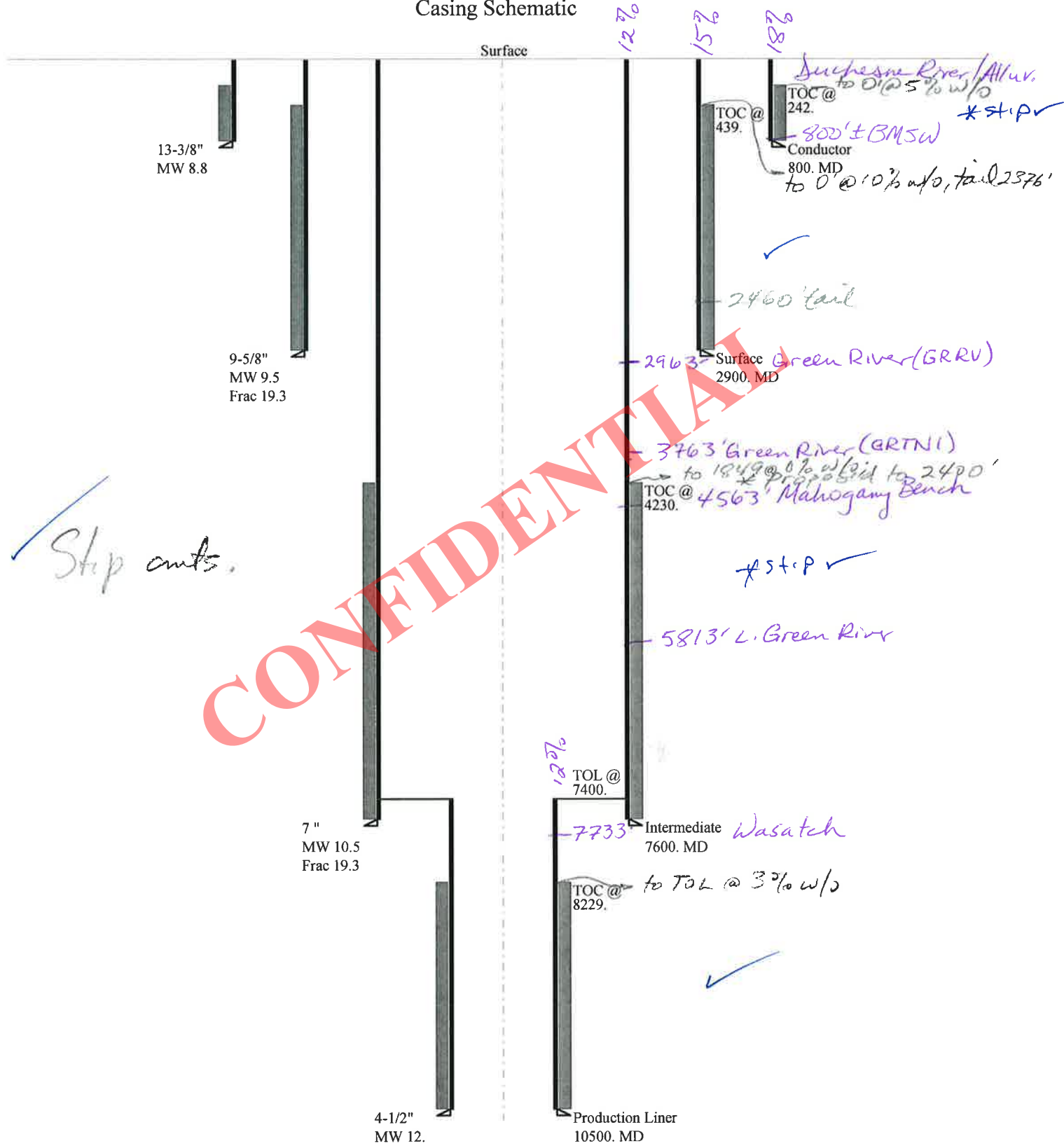
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1483	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1085	NO rotating head + 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	795	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	971	NO OK
Required Casing/BOPE Test Pressure=		2900	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4150	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3238	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2478	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3116	NO OK
Required Casing/BOPE Test Pressure=		7600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2900	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6552	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5292	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4242	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5914	YES
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		7600	psi *Assumes 1psi/ft frac gradient

43013517370000 Thomas 1-33C4

Casing Schematic



Well name:	43013517370000 Thomas 1-33C4		
Operator:	EL PASO E & P COMPANY, LP		
String type:	Conductor	Project ID:	43-013-51737
Location:	DUCHESNE COUNTY		

Design parameters:**Collapse**

Mud weight: 8.800 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 85 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: 242 ft

Burst

Max anticipated surface pressure: 270 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 366 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.
Neutral point: 696 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	800	13.375	54.50	J-55	ST&C	800	800	12.49	9925
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	324	1130	3.486	366	2730	7.47	43.6	514	11.79 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 21, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013517370000 Thomas 1-33C4	
Operator:	EL PASO E & P COMPANY, LP	
String type:	Surface	Project ID: 43-013-51737
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 9,500 ppg
Internal fluid density: 1,000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 115 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 439 ft

Burst

Max anticipated surface pressure: 2,262 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,900 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,490 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 7,600 ft
Next mud weight: 10,500 ppg
Next setting BHP: 4,145 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 2,900 ft
Injection pressure: 2,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2900	9.625	40.00	N-80	LT&C	2900	2900	8.75	36902
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1281	3090	2.413	2900	5750	1.98	116	737	6.35 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 21, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2900 ft, a mud weight of 9.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013517370000 Thomas 1-33C4		
Operator:	EL PASO E & P COMPANY, LP		
String type:	Intermediate	Project ID:	43-013-51737
Location:	DUCHESNE COUNTY		

Design parameters:**Collapse**

Mud weight: 10.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 180 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 4,230 ft

Burst

Max anticipated surface pressure: 4,235 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,907 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 6,392 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 10,500 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,545 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 7,600 ft
Injection pressure: 7,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	7600	7	29.00	P-110	LT&C	7600	7600	6.059	85824
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4145	8530	2.058	5907	11220	1.90	220.4	797	3.62 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 21, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7600 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013517370000 Thomas 1-33C4	
Operator:	EL PASO E & P COMPANY, LP	
String type:	Production Liner	Project ID: 43-013-51737
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 221 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 8,229 ft

Burst

Max anticipated surface pressure: 4,235 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,545 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 9,951 ft

Liner top: 7,400 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	4.5	13.50	P-110	LT&C	10500	10500	3.795	17370
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6545	10680	1.632	6545	12410	1.90	41.8	338	8.08 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 26, 2012
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 10500 ft, a mud weight of 12 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Thomas 1-33C4
API Number 43013517370000 **APD No** 6918 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NENW **Sec** 33 **Tw** 3.0S **Rng** 4.0W 660 FNL 1554 FWL
GPS Coord (UTM) **Surface Owner** Thomas Elwin Dee Trustee

Participants

Dee Thomas (surface owner); Russell Abbett (leases surface); Lyle Mullins, Kim Swasey, Brandon Bench (concerned neighbors); Wayne Garner (E&P Energy); Dave Allred (E&P land man); Ryan Allred (Allred Surveying); Dennis Ingram (DOGM).

Regional/Local Setting & Topography

The Thomas 1-33C4 is proposed in northeastern Utah along the Duchesne River corridor and on the northern valley floor approximately nine hundred feet north of the river. Access into this well site is 2.76 miles east of the town of Duchesne and along the old highway or river road, which is a class B road. The topography at the proposed well pad is river bottom property that slopes southerly to the Duchesne River, and is croplands with alfalfa stands and sprinkler wheel lines in every direction. The Duchesne River corridor runs in a easterly fashion just south of the proposed project; the Strawberry River drains into the Duchesne just east of town or approximately 2.5 miles west of this well staking. The elevation rises approximately 500' to the north as the broken ridges leave the river bottom join the lower or southern portions of Blue Bench.

Surface Use Plan

Current Surface Use

Agricultural
 Grazing
 Wildlife Habitat
 Residential

New Road Miles

0.1

Well Pad

Width 342 **Length** 425

Src Const Material

Offsite

Surface Formation

UNTA

Ancillary Facilities N

Well pad was proposed to run east/west but will be changed to run north south with the reserve pit off the northeastern corners. Also move road to the east and straight into location rather than down the western fence line adjacent to an existing house.

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands Y

North of river.

Flora / Fauna

alfalfa and hay field with sprinkler system in place.....

Mule Deer, elk, mountain lion, black bear, coyote, fox, raccoon, skunk, rabbit and other smaller mammals and bird life native to region and river bottom country.

Soil Type and Characteristics

Brown to tan, fine grained sandy loam with some clays present

Erosion Issues Y

Storm waters from south facing canyons do drain water across the surface to the west of this well pad.

Sedimentation Issues Y

Site Stability Issues N

Drainage Diversion Required? Y

Berm Required? Y

berm location to prevent fluids from leaving into adjacent fields land also to prevent storm water from entering

Erosion Sedimentation Control Required? Y

Location bermed and diversion ditch if necessary along the western side of location

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations	30 to 50	30 to 50
Presence Nearby Utility Conduits	Present	15
Final Score		70 1 Sensitivity Level

Characteristics / Requirements

No reserve pit is being proposed. Currently drilling program is a closed loop system using steel mud tanks provided by drilling contractors.

All E&P materials, including drill cuttings, shall be contained in steel tanks or an approved pit containing a synthetic liner until it can be demonstrated such materials meet DOGM stands for abandonment. E&P materials, such as drilling cuttings, shall conform to the following DOGM standards prior to abandonment: Electrical Conductivity

Closed Loop Mud Required? Y Liner Required? Liner Thickness Pit Underlayment Required?

Other Observations / Comments

Move road east and bring it straight into well pad along the eastern border or property line of an existing farm house. Provide privacy fence along the northern and eastern property line of that same farm house, six feet high or more to match existing fence along the western side of house. Fence access road and location to keep cattle off location, gate on access road, diversion ditch along western border of location (or berm) to direct storm waters south toward highway. Rotate location 90 degrees clockwise to run north/south which will give more surface back for crop lands along the eastern portion after the reserve pit is closed. Move spoils pile off the southwestern corners (rather than the east) so spoils are left on lands that are land locked and not useable rather than along the east. Mandatory closed loop system because of underlying cobbles, ground water and water wells.

Dennis Ingram
Evaluator

10/1/2012
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6918	43013517370000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Thomas Elwin Dee Trustee	
Well Name	Thomas 1-33C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NENW 33 3S 4W U 660 FNL (UTM) 555739E 4448251N		1554 FWL	GPS Coord	

Geologic Statement of Basis

El Paso proposes to set 800 feet of conductor and 2,900 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 800 feet. A search of Division of Water Rights records indicates that there are 13 water wells within a 10,000 foot radius of the center of Section 33. These wells probably produce water from alluvium associated with the Duchesne River and the Duchesne River Formation. Depths of the wells fall in the range of 30-150 feet. The wells are listed as being used for irrigation, stock watering and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

11/15/2012
Date / Time

Surface Statement of Basis

A presite visit was scheduled and performed on October 1, 2012 to take input and address issues regarding the construction and drilling of this well. Dee Thomas was shown as the landowner of record and present for the presite meeting. The surface of the access road and proposed well pad is on crop lands with standing alfalfa--a sprinkler system is in place. Russell Abett leases the surface area for growing cattle feed and grazing. The operator and landowner have not come to an agreement at the time of this visit, although Mr. Thomas is working with the operator to reach one.

Concerned landowners requested the access road be moved to the east. The surface appears flat but slopes to the southeast with the greatest cut being 4.8' along the northern length of the pad and 4.6' of fill on the southeast corner. The location and access road will need fenced to keep cattle off the lease. This well needs a closed loop mud system, the operator cannot bury these cuttings but needs to dry them and take them to the Duchesne county dump because of underlying ground water. Topsoil shall be stored along the south of the southeastern corner of lease and be seeded to keep the soil active and productive until this well is plugged and abandon. A farm house is location just west of the access road and south of the location, and the operator shall provide a privacy fence along the northern and eastern side of that property to match the existing fence along the eastern portion. This well is staked in residential farmland and the operator shall make attempts to limit night time activity and noise levels to reduce landowner complaints.

Dennis Ingram
Onsite Evaluator

10/1/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Drilling	Location needs to be turned 90 degrees.
Pits	A closed loop mud circulation system is required for this location.
Pits	All drilling fluids shall be stored in steel tanks. Wellbore cuttings shall be dried and hauled to the Duchesne County Dump or other authorized facilities.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/21/2012

API NO. ASSIGNED: 43013517370000

WELL NAME: Thomas 1-33C4

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENW 33 030S 040W

Permit Tech Review: ☒

SURFACE: 0660 FNL 1554 FWL

Engineering Review: ☒

BOTTOM: 0660 FNL 1554 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.18279

LONGITUDE: -110.34526

UTM SURF EASTINGS: 555739.00

NORTHINGS: 4448251.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: STATE - 400JU0708
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: Duchesne City/East Duchesne Water District
- ☐ RDCC Review:
- ☒ Fee Surface Agreement
- ☐ Intent to Commingle
- Commingle Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit:
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 139-90
- Effective Date: 5/9/2012
- Siting: 4 Producing Grrv-Wstc Wells In Sec Drl Unit
- ☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmadonald
12 - Cement Volume (3) - hmadonald

RECEIVED: June 10, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Thomas 1-33C4
API Well Number: 43013517370000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 6/10/2013

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the conductor and surface casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface as stated in submitted drilling plan.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2400' MD as indicated in the submitted drilling plan.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 20, 2014

EP Energy E&P Company, L.P.
1001 Louisiana Street RM 2038D
Houston, TX 77002

Re: APD Rescinded – Thomas 1-33C4, Sec. 33, T.3, R.4W,
Duchesne County, Utah API No. 43-013-51737

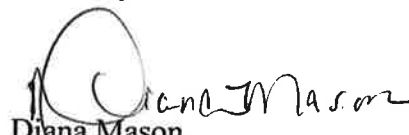
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on June 10, 2013. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective August 20, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Brad Hill, Technical Service Manager

